

INFORMATION REPORT

CD NO.

CONFIDENTIAL

COUNTRY Yugoslavia

DATE DISTR. 29 Aug 50

50X1-HUM

SUBJECT Aluminium Factory at Strnisce

NO. OF PAGES 1

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1. The Bayer process is used for the purification of bauxite at Strnisce. Steps in the process are as follows:
 - a. Calcined bauxite is ground in the ball mill.
 - b. The material is then mixed in tanks with a solution of sodium hydroxide (NaOH).
 - c. It is then treated in autoclaves to form sodium aluminate.
 - d. The charge is then transferred to settling tanks for the removal of insoluble residue consisting mainly of ferric oxide, silica and an insoluble sodium-aluminium silicate.
 - e. The aluminate solution is decanted, diluted, clarified and filtered, and finally run into decomposing tanks in which a small amount of $Al(OH)_3$ is added and stirred. The $Al(OH)_3$ is precipitated from the solution with regeneration of NaOH.
 - f. The pulp is thickened, filtered and washed.
 - g. $Al(OH)_3$ is calcined to produce Al_2O_3 .
2. The production capacity of the Strnisce factory is 55,000 tons of aluminium oxide per year. Approximately 30,000 Kws of electrical energy will be consumed in the electrolysis of aluminium oxide.

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